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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/589,462	08/14/2006	Yukiko Inamoto	2006_1261A	7229	
513 7590 11/24/2009 WENDEROTH, LIND & PONACK, L.L.P.			EXAM	EXAMINER	
1030 15th Street, N.W.,			RAO, SAVITHA M		
Suite 400 East Washington T	OC 20005-1503		ART UNIT PAPER NUMBER		
,			1614	•	
			MAIL DATE	DELIVERY MODE	
			11/24/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) INAMOTO ET AL. 10/589,462 Office Action Summary Examiner Art Unit

		SAVITHA RAO	1614				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ac	ldress			
Period fo	or Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA- naions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MCNTHS from the making date of this communication. of the communication of the communic	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on <u>14 September 2009</u> .						
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the	e merits is			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)🖂	Claim(s) 4-8 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdraw	n from consideration.					
5)	Claim(s) is/are allowed.						
6)🖂	☑ Claim(s) 4-8 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examiner						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
.0,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex						
7—	under 35 U.S.C. § 119						
	•						
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (t).				
a)	All b) Some * c) None of:	haran baran aran Sand					
	1. Certified copies of the priority documents		am Na				
	2. Certified copies of the priority documents			04			
	Copies of the certified copies of the prior	•	o in this National	Stage			
* (application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.							

Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SE/08)

Paper No(s)/Mail Date ___

5) Notice of Informal Patent Application

6) Other: __

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DETAILED ACTION

Claims 4-8 are pending.

Receipt and consideration of Applicants' amended claim set and remarks/arguments filed on 07/13/2009 is acknowledged. Applicant amended instant claim 4 and added new claims 7 and 8.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/14/2009 has been entered.

Applicants' arguments, filed 07/13/2009, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 102(b)

(New grounds of rejection necessitated by the amendment)

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 4-5 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Inamoto et al (US 2003/0125308 an English equivalent of WO2001/047525, referenced in the instant IDS) as evidenced by Reller (US 4219548), (both references already of record)

Inamoto discloses external preparations having an excellent antipruritic activity acetylsalicylic acid as an active ingredients and a method of treating pruritis by using said external preparations [0001]. Inamoto discloses that acetylsalicylic acid (aspirin) has a strong analgesic activity, antifebrile activity and an antirheumatic activity being less on its side effects and superior in its safety [0006]. Inamoto also discloses that a new use of acetylsalicylic acid in the form of an external preparation, ointments for treating neuralgia and external preparations for treating skin injury and a transdermal administration system for treatment of thrombosis and prophylactic treatment of cancer has been illustrated in prior art [0008].

Inamoto discloses that the amount of acetyl salicylic acid in the external preparation depends on form of the preparation and is in the range of 0.05-80%, preferably 0.05-70%, more preferably 0.1-50% per total amount by weight. Inamoto additionally discloses that if the aspirin amount is greater than 80% by weight, it is impossible to maintain the physical property of an external preparation and when it is less than 0.05% by weight, there is not enough antipruritic activity and therefore the amount of more than 80% or less than 0.05% is not preferable [0014]. Inamoto teaches examples of diseases with itching for which the external preparation of his invention is

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used as itching with skin diseases, such as atopic dermatitis, eczema, contact dermatitis etc.; senile pruritis; itching with metabolic diseases, such as hepatocirrhosis etc., itching with endocrine or dyshormonic disease such as diabetes; and itching with skin injury, such as cut, wound after operation, or burn [0015]. Inamoto further provides examples of external formulations comprising acetylsalicylic acid (examples 1-25, Tables 1-4, [0027-0030]). Inamoto finally teaches that the preparation as per his invention is applied to the lesion [0025].

Reller is being provided as a supplemental reference to demonstrate the routine knowledge in using acetylsalicylic acid as active ingredient in topical composition that is useful for the treatment of inflammation of skin including dermatoses accompanied by inflammation, skin injury, contact burns and insect bites (see column 1, lines 18-43; column 1, line 66 through column 2, line 3; Example I-II). Particularly, Example II teaches that topical administration of aspirin is useful in reducing inflammation and the sensation of itching and pain. Since Inamoto teaches methods of administration of topical aspirin to lesions resulting from <u>Wounds after operation</u> Inamoto et al. anticipates instant claims 4-5 and 8.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inamoto et al (US 2003/0125308 an English equivalent of WO2001/047525, referenced in the instant IDS) as evidenced by Reller (US 4219548), (both references already of record)

Inamoto discloses external preparations having an excellent antipruritic activity acetylsalicylic acid as an active ingredients and a method of treating pruritis by using said external preparations [0001]. Inamoto discloses that acetylsalicylic acid (aspirin) has a strong analgesic activity, antifebrile activity and an antirheumatic activity being

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less on its side effects and superior in its safety [0006]. Inamoto also discloses that a new use of acetylsalicylic acid in the form of an external preparation, ointments for treating neuralgia and external preparations for treating skin injury and a transdermal administration system for treatment of thrombosis and prophylactic treatment of cancer has been illustrated in prior art [0008].

Inamoto discloses that the amount of acetyl salicylic acid in the external preparation depends on form of the preparation and is in the range of 0.05-80%. preferably 0.05-70%, more preferably 0.1-50% per total amount by weight. Inamoto additionally discloses that if the aspirin amount is greater than 80% by weight, it is impossible to maintain the physical property of an external preparation and when it is less than 0.05% by weight, there is not enough antipruritic activity and therefore the amount of more than 80% or less than 0.05% is not preferable [0014]. Inamoto teaches examples of diseases with itching for which the external preparation of his invention is used as itching with skin diseases, such as atopic dermatitis, eczema, contact dermatitis etc.; senile pruritis; itching with metabolic diseases, such as hepatocirrhosis etc., itching with endocrine or dyshormonic disease such as diabetes; and itching with skin injury, such as cut, wound after operation, or burn [0015], Inamoto further provides examples of external formulations comprising acetylsalicylic acid (examples 1-25. Tables 1-4. [0027-0030]). Inamoto finally teaches that the preparation as per his invention is applied to the lesion [0025].

Reller is being provided as a supplemental reference to demonstrate the routine knowledge in using acetylsalicylic acid as active ingredient in topical composition that is

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useful for the treatment of inflammation of skin including dermatoses accompanied by inflammation, skin injury, contact burns and insect bites (see column 1, lines 18-43; column 1, line 66 through column 2, line 3; Example I-II). Particularly, Example II teaches that topical administration of aspirin is useful in reducing inflammation and the sensation of itching and pain.

Inamoto fails to teach the specific ranges of the acetylsalicilyic acid recited in instant claims 6-7. However, Inamoto's teachings that the external preparation of his invention comprises acetylsalicylic acid in the concentrations range of 0.05-80%, preferably 0.05-70%, more preferably 0.1-50% per total amount by weight, encompasses the instantly claimed ranges and thereby renders the instant claims obvious. Inamoto's additional teachings that having concentrations less than 0.05% or greater than 80% would not result in a stable composition provides an ordinarily skilled artisan additional motivation to further optimize the concentration to narrow down the dose range, thereby arriving at the instantly claimed concentrations. Additionally, It is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizobuchi et al. (US 6268355 B 1) in view of Lee et al (Injury Vol.29,No 5, pages 345-347,1998)

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Mizobuchi discloses a stable external preparation consisting essentially of acetylsalicylic acid and carriers (i.e., white vaseline, yellow vaseline, lanolin, purified bee wax, cetanol, steryl alcohol, stearic acid, hydrogenated oil, hydrocarbon gel, polyethylene glycol, liquid paraffin and squalane), wherein said preparation is formulated in the form of cataplasms, plasters, ointments, creams, external powders (col.3, line 30 to clol.4 lines 43 and examples 1-32) and the amount of aspirin as an active ingredient in an external preparation is 0.001 to 30% by weight per total amount, preferably 0.01 to 20% by weight, more preferably 0.05 to 15% by weight (column 2, lines 15-26 and 58-60;). Mizobuchi teaches that said composition is superior in stability and transdermal absorption from skin (column 2, lines 6-10 and 61-65; column 12, lines 65-67); and that said composition having anti-inflammatory antipyretic analgesic is useful in enhancing healing of skin injury (Figure 1 and Experiment 4). Mizubuchi discloses treatment of rats injured with the ointment of his invention comprising acetylsalicylic acid as the active ingredient (experiment 4, col.9, lines 25-46).

Mizobuchi does not specifically administer his inventive compounds to treat skin wounds selected from the group consisting of traumata, infectious diseases in surgery, postoperative wound, temperature impairment, chemical impairment, radiation injury etc,

However, Lee et al teaches that skin injuries occurs as a post-operative or post surgical procedure and involves injuries due to electrical current, thermal injury, chemical irritation or mechanical stress (page 346, under discussion to page 347, left col. 1st paragraph). As such, it would have been obvious to an ordinarily skilled artisan

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to use the topical acetylsalicylic formulation taught by Mizobuchi in the treatment of postoperative wounds inflicted by either trauma, chemical, electrical or mechanical stress. An ordinarily skilled artisan would have a reasonable expectation of success that such a treatment would result in healing of the skin injury by motivation provided by Mizobuchi.

Response to applicant's arguments submitted on 07/13/2009

Applicant's arguments with respect to the previous rejection of the claims over namoto and Reller or Mizubuchi and Reller have been considered but are not persuasive in light of these new ground of rejection necessitated by Applicant's amendments to the claims. However, in the interest of a full prosecution history, the Examiner will address Applicant's arguments as they pertain to the present rejection

Examiner has considered Applicant's argument and does not find it persuasive.

Applicant argue that Inamoto et al and Mizubuchi et al. does not disclose treatment of a skin wound selected from the group recited in instant claim 4. Examiner would like to point out that Inamoto et al explicitly teaches the topical administration of acetylsalicylic drugs to lesions or wounds after operation and therefore anticipates the instant claims. Mizubuchi et al teaches wounded rats with topical application of aspirin and teaches treatment of skin injuries. Skin injuries as taught by Lee et al results as a consequence of post-operative procedure or surgery and as such could very well be treated with the composition of Mizubuch who explicitly teaches healing of skin injuries with his acetylsalicylic formulation..

Conclusion

Claims 4-8 are rejected. No claims are allowed

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to SAVITHA RAO whose telephone number is (571)270-

5315. The examiner can normally be reached on Mon-Fri 7 am to 4 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ardin Marschel can be reached at 571-272-0718. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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/SAVITHA RAO/ Examiner, Art Unit 1614

/Ardin Marschel/

Supervisory Patent Examiner, Art Unit 1614